

ABSTRACT OF THE DISCLOSURE

A chuck device includes a first worm gear mechanism linked to a second worm wheel mechanism which operate in tandem to receive, increase, and redirect an input rotational drive force. A conversion mechanism receives and further augments the drive force from the second worm gear mechanism and converts the drive force into an axial force. The conversion mechanism transfers the axial force symmetrically to a pair of claw members. The claw members move relative to each other and firmly secure a work item to the chuck device.

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